

SAF-RC-001

Industrial Hygiene Sampling

FINAL DATA

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Cover Page

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Report Identification Number: 06I-0183-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R300XX J451
Payroll#: 8C104



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
17 Jan 2006	J10X87	06I01525	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X84	06I01526	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X86	06I01527	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X85	06I01528	NMAM 7300M	G060K00H	G WIPE

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Name: Lisa M. Reid
Title: Chemist
Date: January 23, 2006



Case Narrative Page

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Report Identification Number: 06I-0183-01
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Laboratory Identification Number: DCHM
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General Set Information: There are 4 samples in set 06I-0182-01 and 4 samples in set 06I-0183-01 which were analyzed for beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample.

Method Blank Analysis: No beryllium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples ($\mu\text{g/sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g/L}$)

B = Concentration factor from sample preparation

= $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g/L}) \times (0.025 \text{ L/sample}) \times (1) = 0.025 \mu\text{g/sample}$

Miscellaneous Comments: None



Report Page

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Laboratory Identification Number: DCHM

SAF#: RC-001 / R300XX J451

Payroll#: 8C104

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$
J10X87	06I01525	19 Jan 2006	<0.020 U
J10X84	06I01526	19 Jan 2006	<0.020 U
J10X86	06I01527	19 Jan 2006	<0.020 U
J10X85	06I01528	19 Jan 2006	<0.020 U
Limit of Detection (LOD)			0.0070
Required Detection Limit (RDL)			0.020

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary Page

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Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF: RC-001 / R300XX J451
Payroll#: 8C104

Batch ID: G060K00H

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240174-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
QC-240174-1	LCS	Beryllium	µg/sample	10.8	NA	10.0	108.	NA
QD-240174-1	LCSD	Beryllium	µg/sample	11.1	10.8	10.0	111.	2.84

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

011-018-01



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: Carla Hughes		Company Contact: Denise A. Pitts and Henry W. Ruby		Telephone No.: 531-1229		Project Coordinator: Juan H. Kessner		Data Turnaround: STANDARD							
Payroll #: 8C104		Sampling Location: 300 Area, 333 Bldg.		SPECIAL INSTRUCTIONS: All relevant COAs must be provided: R300XX J451		SAF No.: RC-001									
Type of Sample: Be				ANALYSIS METHOD (SPECIFIC): NIOSH 7300		Method of Shipment: Fed Ex									
Shipped To: Data Chem SALT Lake City		Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other				Bill of Lading/Air Bill No.: 8541 9337 5330									
POSSIBLE SAMPLE HAZARD/REMARKS: Be		MATRIX: A - AIR WI - WIPE X - OTHER		Preservation (i.e., cooling required, etc.):		No	No	No	No	No	No	No	No	No	No
Special Handling and/or Storage: NO						No	No	No	No	No	No	No	No	No	No
SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne			
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area 100 cm ²	Comments											
J10X87	WI	1-17-06	X	N/A				X							
J10X84	WI	1-17-06	X	N/A				X							
J10X86	WI	1-17-06	NA	Blank				X							
J10X85	WI	1-17-06	N/A	Blank				X							

Enter on line below the first Sample Number from Page One:

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Carol Hughes / Carol Hughes	1-17-06 / 1315	Locked Cabinet, Rm 16, Bldg 3746	1-17-06 / 1315
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Locked Cabinet building 3746 Rm #16			
Carol Hughes / Carol Hughes	01/17/06 1445	RZ Steffler R.Z. Steffler	1-17-06 1445
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
RZ Steffler R.Z. Steffler	1-17-06 1530	Fed Ex	
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Fed Ex		Meredith Edwards	1/17/06 1445
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Meredith ME	1/17/06 1445		
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Received By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME
	Meredith Edwards		1/17/06 1445

REVIEWED BY: _____ DATE: _____
PRINT/SIGN NAME

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: Carla Hughes		Company Contact Denise A. Pitts and Henry W. Ruby		Telephone No. 531-1229		Project Coordinator Joan H. Kessner		Data Turnaround STANDARD												
Payroll #: 8C104		Sampling Location 300 Area, 333 Bldg.		SPECIAL INSTRUCTIONS All relevant COAs must be provided: R300XX J451 ANALYSIS METHOD (SPECIFIC): NIOSH 7300		SAF No. RC-001		COPY Fed Ex 8541 9337 5330												
Type of Sample: Be		Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____				Method of Shipment														
Shipped To: Data Chem Salt Lake City						Bill of Lading/Air Bill No.														
POSSIBLE SAMPLE HAZARD/REMARKS Be		MATRIX A - AIR WI - WIPE X - OTHER		Preservation (i.e., cooling required, etc.)		No		No		No		No		No		No				
Special Handling and/or Storage ND																				
SAMPLE ANALYSIS					Asbestos Airborne		Lead Airborne		Beryllium Airborne		Beryllium Wipe		Mold		Lead Wipe		Cd Wipe		Cd Airborne	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area 100 cm ²	Comments																
J10X87	WI	1-17-06	X	N/A							X									
J10X84	WI	1-17-06	X	N/A							X									
J10X86	WI	1-17-06	NA	Blank							X									
J10X85	WI	1-17-06	N/A	BLANK							X									
FIELD SAMPLE COPY																				

COPY

PRINT/SIGN NAME _____